Journal of Non-Crystalline Solids 120 (1990) 289–290
North-Holland

AUTHOR INDEX

Aegerter, M.A., see Tada 120 (1990) 275
Allara, D.L., Z. Wang and C.G. Pantano, Characterization of organic adsorbates on model glass surfaces 120 (1990) 93
Anthony, L.J. and R.A. Holland, Glass surface chemistry via gas chromatography 120 (1990) 82
Arnold, G.W., see Brow 120 (1990) 172
Arnold, G.W., R.K. Brow and D.R. Myers, Characterization of the near-surface region of glass implanted with light elements 120 (1990) 234

Battaglin, G., R. Bertoncello, A. Boscolo-Boscoletto, F. Caccavale, J. Lucas, P. Mazzoldi, C. Pledel and P. Polato, Ion implantation effects in heavy metal fluoride glasses 120 (1990) 256
Bertoncello, R., see Battaglin 120 (1990) 256
Borchardt, G., see Richter 120 (1990) 117
Boscolo-Boscoletto, A., see Battaglin 120 (1990) 256
Brinker, C.J., R.K. Brow, D.R. Tallant and R.J. Kirkpatrick, Surface structure and chemistry of high surface area silica gels 120 (1990) 26
Brow, R.K., see Brinker 120 (1990) 26
Brow, R.K., Y. Zhu, D.E. Day and G.W. Arnold, Surface nitridation of a phosphate glass 120 (1990) 172
Brow, R.K., see Arnold 120 (1990) 234
Bunker, B.C., see Michalske 120 (1990) 126
Büyüklimanli, T.H. and J.H. Simmons, XPS studies of polyhedral linkages in binary fluoride films 120 (1990) 262

Caccavale, F., see Battaglin 120 (1990) 256
Caracciolo, R., see Ho 120 (1990) 267
Carman, L.A. and C.G. Pantano, Water-vapor adsorption on calcium–boroaluminosilicate glass fibers 120 (1990) 40
Cole, D.A., see Fowkes 120 (1990) 47
Cook, G.B., R.F. Cooper and T. Wu, Chemical diffusion and crystalline nucleation during oxidation of ferrous iron-bearing magnesium aluminosilicate glass 120 (1990) 207
Cook, L.M., Chemical processes in glass polishing 120 (1990) 152
Cooper, R.F., see Cook 120 (1990) 207

Day, D.E., see Brow 120 (1990) 172
Dwight, D.W., see Fowkes 120 (1990) 47

Fowkes, F.M., D.W. Dwight, D.A. Cole and T.C. Huang, Acid–base properties of glass surfaces 120 (1990) 47
Frischat, G.H., see Richter 120 (1990) 117

Garofalini, S.H., Molecular dynamics computer simulations of silica surface structure and adsorption of water molecules 120 (1990) 1
Greaves, G.N., EXAFS for studying corrosion of glass surfaces 120 (1990) 108

Ho, S.-F., L.C. Klein and R. Caracciolo, Analysis of precursor residues in lithium aluminosilicate gels using XPS and RGA 120 (1990) 267
Holland, R.A., see Anthony 120 (1990) 82
Horn, R.G. and D.T. Smith, Measuring surface forces to explore surface chemistry: mica, sapphire and silica 120 (1990) 72
Hosono, H., R.A. Weeks, H. Imagawa and R. Zuhr, Formation of oxygen-deficient type structural defects and state of ions in SiO_2 glasses implanted with transition metal ions 120 (1990) 250
Huang, T.C., see Fowkes 120 (1990) 47

Imagawa, H., see Hosono 120 (1990) 250

Kaneko, T., The field-assisted penetration of a silver film into glass 120 (1990) 188
Kawahara, H., see Nagao 120 (1990) 199
Keefer, K.D., see Michalske 120 (1990) 126
Kirkpatrick, R.J., see Brinker 120 (1990) 26
Klein, L.C., see Ho 120 (1990) 267
Kokubo, T., Surface chemistry of bioactive glass-ceramics 120 (1990) 138

Lucas, J., see Battaglin 120 (1990) 256

Magruder III, R.H., S.H. Morgan, R.A. Weeks and R.A. Zuhr, Effects of ion implantation on intermediate range order: IR spectra of silica 120 (1990) 241
Maniar, P.D. and A. Navrotsky, Energetics of high surface area silicas 120 (1990) 20
Mazzoldi, P., Ion beam modification of glass surface properties 120 (1990) 223
Mazzoldi, P., see Battaglin 120 (1990) 256
McFarlan, A.J., see Morrow 120 (1990) 61

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Michalske, T.A., B.C. Bunker and K.D. Keefer, Mechanical properties and adhesion of hydrated glass surface layers 120 (1990) 126
Misonou, M., see Nagao 120 (1990) 199
Morgan, S.H., see Magruder III 120 (1990) 241
Morrow, B.A. and A.J. McFarlan, Chemical reactions at silica surfaces 120 (1990) 61
Myers, D.R., see Arnold 120 (1990) 234

Nagao, H., M. Misonou and H. Kawahara, Mechanism of coloration in copper-stained float glass 120 (1990) 199
Navrotsky, A., see Maniar 120 (1990) 20
Nishioka, G.M., Adsorption/desorption of water on glass fiber surfaces 120 (1990) 34
Nishioka, G.M., Interaction of organosilanes with glass fibers 120 (1990) 102

Ohsaki, H., see Tada 120 (1990) 275

Pantano, C.G., see Carman 120 (1990) 40
Pantano, C.G., see Allara 120 (1990) 93
Pantano, C.G., see Then 120 (1990) 178
Pledel, C., see Battaglin 120 (1990) 256
Polato, P., see Battaglin 120 (1990) 256

Richter, Th., G.H. Frischat, G. Borchardt and S. Scherrer, A mathematical model of short time leaching at fracture surfaces 120 (1990) 117
Scherrer, S., see Richter 120 (1990) 117
Simmons, J.H., see Büyüklimanli 120 (1990) 262
Smith, D.T., see Horn 120 (1990) 72
Strutt, P.R., see Yi 120 (1990) 283

Tada, M., H. Ohsaki and M.A. Aegerter, Structural difference of surface and subsurface native oxides of evaporated amorphous silicon 120 (1990) 275
Tallant, D.R., see Brinker 120 (1990) 26
Then, A.M. and C.G. Pantano, Formation and behavior of surface layers on electron emission glasses 120 (1990) 178
Tossell, J.A., Calculation of NMR shieldings and other properties for three and five coordinate Si, three coordinate O and some siloxane and boroxol ring compounds 120 (1990) 13

Wang, Z., see Allara 120 (1990) 93
Weeks, R.A., see Magruder III 120 (1990) 241
Weeks, R.A., see Hosono 120 (1990) 250
Wu, T., see Cook 120 (1990) 207

Yi, J.J.L. and P.R. Strutt, Surface modification of SiO_2 glass by laser processing 120 (1990) 283

Zhu, Y., see Brow 120 (1990) 172
Zuhr, R., see Hosono 120 (1990) 250
Zuhr, R.A., see Magruder III 120 (1990) 241

Journal of Non-Crystalline Solids 120 (1990) 291–293
North-Holland

SUBJECT INDEX

Borates
Nuclear Magnetic Resonance, Theory 120 (1990) 13

Chemical Durability
Contacts, Structure, Glasses Containing Transition Metal Ions, Surface Analysis 120 (1990) 108
Fracture, Surface Reactions 120 (1990) 126
Glass Ceramics, Interfaces, Surface Reactions 120 (1990) 138

Chromatography
Glass Surface 120 (1990) 82

Colloids
Optical Properties, Glasses Containing Transition Metal Ions, Ion Exchange, Light Scattering 120 (1990) 199

Composites
Contacts, Surface Analysis, Polymers, Fibers 120 (1990) 47
Fibers, Interfaces, Polymers 120 (1990) 102

Contacts
Chemical Durability, Structure, Glasses Containing Transition Metal Ions, Surface Analysis 120 (1990) 108
Composites, Surface Analysis, Polymers, Fibers 120 (1990) 47

Defects
Ion Implantation, Glasses Containing Transition Metal Ions, Optical Properties 120 (1990) 250

Diffusion
Ion Exchange, Optical Properties, Refractive Index 120 (1990) 188

Electron Diffraction
Silicon, Thin Films, Structure 120 (1990) 275

Ellipsometry
Sol–Gel Method, Surface Reactions, Infra-red Absorption 120 (1990) 93

Experimental Techniques
Fibers, Water in Glass, Surface Properties 120 (1990) 34
Fibers, Water in Glass, Surface Properties, Glass Fibers 120 (1990) 40

Fibers
Composites, Interfaces, Polymers 120 (1990) 102
Contacts, Composites, Surface Analysis, Polymers 120 (1990) 47
Water in Glass, Experimental Techniques, Surface Properties 120 (1990) 34
Water in Glass, Experimental Techniques, Surface Properties, Glass Fibers 120 (1990) 40

Fluorides
Ion Implantation, Optical Properties, Surface Analysis 120 (1990) 256

Fracture
Chemical Durability, Surface Reactions 120 (1990) 126

Glass Ceramics
Interfaces, Chemical Durability, Surface Reactions 120 (1990) 138

Glass Fibers
Fibers, Water in Glass, Experimental Techniques, Surface Properties 120 (1990) 40

Glass Surface
Chromatography 120 (1990) 82
Surface Properties, Surface Reactions 120 (1990) 152

Glasses Containing Transition Metal Ions
Chemical Durability, Contacts, Structure, Surface Analysis 120 (1990) 108
Defects, Ion Implantation, Optical Properties 120 (1990) 250
Ion Implantation, Silica, Optical Properties 120 (1990) 241
Optical Properties, Ion Exchange, Light Scattering, Colloids 120 (1990) 199
Surface Analysis, Surface Reactions, Transport Properties – Solids 120 (1990) 207

Halide Glasses
XPS, Structure 120 (1990) 262

Hydrogenation
Surface Analysis, Surface Reactions, Transport Properties – Devices 120 (1990) 178

Infra-red Absorption
Sol–Gel Method, Surface Reactions, Ellipsometry 120 (1990) 93
Surface Properties, Silica, Raman Spectra 120 (1990) 61

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Interfaces
Composites, Fibers, Polymers 120 (1990) 102
Glass Ceramics, Chemical Durability, Surface Reactions 120 (1990) 138

Ion Exchange
Diffusion, Optical Properties, Refractive Index 120 (1990) 188
Optical Properties, Glasses Containing Transition Metal Ions, Light Scattering, Colloids 120 (1990) 199

Ion Implantation
Defects, Glasses Containing Transition Metal Ions, Optical Properties 120 (1990) 250
Fluorides, Optical Properties, Surface Analysis 120 (1990) 256
Silica, Glasses Containing Transition Metal Ions, Optical Properties 120 (1990) 241
Surface Properties, Surface Analysis, Optical Properties 120 (1990) 223
XPS, Optical Properties, Silica 120 (1990) 234

Kinetics
Surface Analysis, Water in Glass 120 (1990) 117

Lasers
Surface Reactions, Thin Films, Surface Analysis 120 (1990) 283

Light Scattering
Optical Properties, Glasses Containing Transition Metal Ions, Ion Exchange, Colloids 120 (1990) 199

Molecular Dynamics
Water in Glass, Silica 120 (1990) 1

Nuclear Magnetic Resonance
Sol–Gel Method, Silica, Raman Spectra 120 (1990) 26
Theory, Borates 120 (1990) 13

Optical Properties
Defects, Ion Implantation, Glasses Containing Transition Metal Ions 120 (1990) 250
Diffusion, Ion Exchange, Refractive Index 120 (1990) 188
Glasses Containing Transition Metal Ions, Ion Exchange, Light Scattering, Colloids 120 (1990) 199
Ion Implantation, Fluorides, Surface Analysis 120 (1990) 256
Ion Implantation, Silica, Glasses Containing Transition Metal Ions 120 (1990) 241
Ion Implantation, Surface Properties, Surface Analysis 120 (1990) 223
Ion Implantation, XPS, Silica 120 (1990) 234

Organic–Inorganic Hybrids
Sol–Gel Method, Surface Analysis, Structure 120 (1990) 267

Oxides
Surface Properties, Silica 120 (1990) 72

Oxynitride Glasses
XPS, Phosphates 120 (1990) 172

Phosphates
XPS, Oxynitride Glasses 120 (1990) 172

Polymers
Composites, Fibers, Interfaces 120 (1990) 102
Contacts, Composites, Surface Analysis, Fibers 120 (1990) 47

Raman Spectra
Sol–Gel Method, Silica, Nuclear Magnetic Resonance 120 (1990) 26
Surface Properties, Silica, Infra-red Absorption 120 (1990) 61

Refractive Index
Diffusion, Ion Exchange, Optical Properties 120 (1990) 188

Silica
Ion Implantation, Glasses Containing Transition Metal Ions, Optical Properties 120 (1990) 241
Ion Implantation, XPS, Optical Properties 120 (1990) 234
Molecular Dynamics, Water in Glass 120 (1990) 1
Sol–Gel Method, Nuclear Magnetic Resonance, Raman Spectra 120 (1990) 26
Structure, Sol–Gel Method, Thermal Properties 120 (1990) 20
Surface Properties, Oxides 120 (1990) 72
Surface Properties, Raman Spectra, Infra-red Absorption 120 (1990) 61

Silicon
Thin Films, Electron Diffraction, Structure 120 (1990) 275

Sol–Gel Method
Silica, Nuclear Magnetic Resonance, Raman Spectra 120 (1990) 26
Silica, Structure, Thermal Properties 120 (1990) 20
Surface Analysis, Structure, Organic–Inorganic Hybrids 120 (1990) 267
Surface Reactions, Infra-red Absorption, Ellipsometry 120 (1990) 93

Structure
Chemical Durability, Contacts, Glasses Containing Transition Metal Ions, Surface Analysis 120 (1990) 108
Silica, Sol–Gel Method, Thermal Properties 120 (1990) 20
Silicon, Thin Films, Electron Diffraction 120 (1990) 275
Sol–Gel Method, Surface Analysis, Organic–Inorganic Hybrids 120 (1990) 267
XPS, Halide Glasses 120 (1990) 262

Surface Analysis
Chemical Durability, Contacts, Structure, Glasses Containing Transition Metal Ions 120 (1990) 108
Contacts, Composites, Polymers, Fibers 120 (1990) 47
Ion Implantation, Fluorides, Optical Properties 120 (1990) 256
Ion Implantation, Surface Properties, Optical Properties 120 (1990) 223
Kinetics, Water in Glass 120 (1990) 117
Sol–Gel Method, Structure, Organic–Inorganic Hybrids 120 (1990) 267
Surface Reactions, Thin Films, Lasers 120 (1990) 283
Surface Reactions, Transport Properties – Devices, Hydrogenation 120 (1990) 178
Surface Reactions, Transport Properties – Solids, Glasses Containing Transition Metal Ions 120 (1990) 207

Surface Properties
Fibers, Water in Glass, Experimental Techniques 120 (1990) 34
Fibers, Water in Glass, Experimental Techniques, Glass Fibers 120 (1990) 40
Glass Surface, Surface Reactions 120 (1990) 152
Ion Implantation, Surface Analysis, Optical Properties 120 (1990) 223
Silica, Oxides 120 (1990) 72
Silica, Raman Spectra, Infra-red Absorption 120 (1990) 61

Surface Reactions
Fracture, Chemical Durability 120 (1990) 126
Glass Ceramics, Interfaces, Chemical Durability 120 (1990) 138
Glass Surface, Surface Properties 120 (1990) 152
Sol–Gel Method, Infra-red Absorption, Ellipsometry 120 (1990) 93
Surface Analysis, Transport Properties – Devices, Hydrogenation 120 (1990) 178
Surface Analysis, Transport Properties – Solids, Glasses Containing Transition Metal Ions 120 (1990) 207
Thin Films, Lasers, Surface Analysis 120 (1990) 283

Theory
Nuclear Magnetic Resonance, Borates 120 (1990) 13

Thermal Properties
Silica, Structure, Sol–Gel Method 120 (1990) 20

Thin Films
Silicon, Electron Diffraction, Structure 120 (1990) 275
Surface Reactions, Lasers, Surface Analysis 120 (1990) 283

Transport Properties – Devices
Surface Analysis, Surface Reactions, Hydrogenation 120 (1990) 178

Transport Properties – Solids
Surface Analysis, Surface Reactions, Glasses Containing Transition Metal Ions 120 (1990) 207

Water in Glass
Fibers, Experimental Techniques, Surface Properties 120 (1990) 34
Fibers, Experimental Techniques, Surface Properties, Glass Fibers 120 (1990) 40
Kinetics, Surface Analysis 120 (1990) 117
Molecular Dynamics, Silica 120 (1990) 1

XPS
Halide Glasses, Structure 120 (1990) 262
Ion Implantation, Optical Properties, Silica 120 (1990) 234
Phosphates, Oxynitride Glasses 120 (1990) 172